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/Kevin Hill/ 02/20/2008

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fute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known				
Application Number	10/570,909-Conf. #1220			
Filing Date	March 29, 2006			
First Named Inventor	Carsten Hopf			
Art Unit	1633			
Examiner Name	Hill, Kevin Kai			
Attorney Docket Number	14129-00001-US			

			U.S. PA	TENT DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA*	US-4,683,202	07-28-1987	Mullis	
	AB*	US-4,683 195	07-28-1987	Mullis et al.	
	AC*	US-4,816,397	03-28-1989	Boss et al.	
	AD*	US-4,816,56%	03-28-1989	Cabilly et al.	
	AE*	US-4,889,818	12-26-1989	Gelfand et al.	
	AF*	US-4,980,286	12-25-1990	Morgan et al.	
	AG*	US-5,096,815	03-17-1992	Ladner et al.	
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	AK*	US-5,498,538	03-12-1996	Kay et al.	
	AL*	US-5,545,806	08-13 1996	Lonberg et al.	
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	AR*	US-5,661,016	08-26-1997	Lonberg et al.	

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Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ -Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	т°
	ВА	EP-0125023	11-14-1984	Genentech, Inc. & City & Hope	1 igures / uppeur	П
	ВВ	EP-0171496-A2		Research Development Carporation of Japan		П
	вс	EP-0173494-A2	03-05-1986	The Board of Trustees of the Leland Stanford Junior University		
	BD	WO-86/01533-A1	03-13-1986	Cell-Tech Limited		\Box
	BE	EP-0184187-A2	06-11-1986	Teijin Limited		
	BF	WO-87/02671-A1	05-07-1987	International Genetic Engineering, In		
	BG	WO-88/01649-A1	03-10-1988	Genex Corporation		
	ВН	WO-88/09810-A1	12-15-1988	Synthetic Genetics		
	ВІ	WO-89/10134-A1	11-02-1989	The Regents of the University of California		
	BJ	WO-90/02809-A1	03-22-1990	Protein Engineering Corporation		
	ВК	EP-0368684-B1	05-16-1990	Medical Research Council		
	BL	WO-90/11364-A1	10-04-1990	University Patents, Inc.		
	ВМ	WO-91/17271-A1	11-14-1991	Affymax Technologies N.V.		
	BN	WO-92/01047-A1	01-23-1992	Cambridge Antibody Technology Limited & Medical Research Council	A STATE OF THE STA	
	во	WO-92/06180-A1	04-16-1992	University of Connecticut		
	BP	WO-92/09690-A2	06-11-1992	Genentech, Inc.	M	
	BQ	WO-92/15679-A1	09-17-1992	Protein Engineering Corporation	N. A.	
	BR_	WO-92/18619-A1	10-29-1992	The Scripps Research Institute		N.

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S	TATEMENT I	3Y /	APPLICANT	First Named Inventor	Carsten Hopf	
				Art Unit	1633	
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Sheet	2	of	12	Attorney Docket Number	14129-00001-US	

					
	BS	WO-92/20791-A1	11-26-1992	Cambridge Antibody Technology Limited & Medical Research Council	
N. S.	вт	WO-92/20316-A2	11-26-1992	University of Connecticut & Targetech, Inc.	
M	BU	WO-92/22635-A1	12-23-1992	University of Connecticut & University of Michigan	
	B/V	WO-93/01288-A1	01-21-1993	Deutsches Krebsforschungszentrum Stiftung des Öffentlichen Rechts	
	BW N	WO-93/06213-A1	04-01-1993	Medical Research Council & Cambridge Antibody Technology Limited	
	вх	W0-93/14188-A1	07-22-1993	The Regents of the University of Mighigan	
	BY	WO-93/20221-A1	10-14-1993	Young	
	BZ	WO-93 20242-A1	10-14-1993	The Scripps Research Institute	
	BA1	WO-94/08 § 98-A1	04-28-1994	Advanced Tissue Sciences, Inc.	
	BB1	WO-94/183 Ng-A1	08-14-1994	The University of North Carolina at Chapel Hill	
	BC1	WO-95/11910-X1	05-04-1995	Ribozyme Pharmaceuticals, Inc.	
	BD1	WO-97/29116-A	08-14-1997	Cruachem Limited	
	BE1	WO-98/24884-A1 *	Q6-11-1998	Genpharm International	
	BF1	WO-98/37240-A1	08,27-1998	TM Technologies, Inc.	
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	BH1	EP-1105508-B1	06-13-2001	Europäisches Laboratorium Für Molekularbiologie (EMBL)	
	BI1	WO-03/019146-A2	03-06-2003	Xenon Genetics Inc.	

*EXAMINER: Initial if reference considered, whether or not citation is n conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTP Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanes patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, jour nal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CA	ALBALA, J. S., "Array-based proteomics: the latest chip diallenge", Expert Rev. Mol. Diagn., 2001, Vol. 1, No. 2, 145-152.	
	СВ	AMARZGUIOUI, M., et al., "Hammerhead ribozyme design and application", Cell. Mol. Life Sci., 1998, Vol. 54, pp. 1175-1202.	
	CC	ANDRAU, D., et al., "BACE1- and BACE2-expressing human cells. Characterization of β-amyloid precursor protein-derived catabolites, design of a novel fluor metric assay, and identification of new <i>in vitro</i> inhibitors", The Journal of Biological Chemistry, 2003, Vol. 278, No. 28, pp. 25859-25866.	
	CD	ANNAERT, W., et al., "A cell biological perspective on Alzheimer's disease" Annu. Rev. Cell Dev. Biol., 2002, Vol. 18, pp. 25-51.	
	CE	BANGA, S. S., et al., "Assignment of PTK7 encoding a receptor protein tyrosine kinase-like molecule to human chromosome 6p21.1→p12.2 by fluorescence in situ hybridization", Cytogenetics and Cell Genetics, 1997, Vol. 76, pp. 43-44.	
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IN	IFORMATION	N DIS	CLOSURE	Filing Date	March 29, 2006	
S	TATEMENT I	BY A	PPLICANT	First Named Inventor	Carsten Hopf	
				Art Unit	1633	
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CG	BEIGELMAN, L., et al., "Synthesis and biological activities of a phosphorodithioate analog of 2',5' -oligoadenylate", Nucleic Acids Research, 1995, Vol. 23, No. 19, pp. 3989-3994.	
СН	BENOIST, C., et al., "In vivo sequence requirements of the SV40 early promoter region", Nature, 1981, Vol. 290, 304-310.	
CI	BESTE, G., et al., "Small antibody-like proteins with prescribed ligand specificities derived from the lipocalin fold", Proc. Natl. Acad. Sci. USA, 1999, Vol. 96, pp. 1898-1903.	
CJ	BETTER, M., et al., "Escherichia coli Secretion of an active chimeric antibody fragment", Science, 1988, Vol. 240, pp. 1041-1043.	
СК	BLASKO, I., et al., "Experimental traumatic brain injury in rats stimulates the expression, production and activity of Alzheimer's disease β-sectrase (BACE-1)", Journal of Neural	
CI		
СМ	BOCK, L. C., et al., "Selection of single-stranded DNA molecules that bind and inhibit human	
CN	BOESEN, J. J. B., et al., "Circumvention of chemotherapy-induced myelosuppression by transfer of the <i>mdr1</i> gene", Biotherapy, 1994, Vol. 6, pp. 291-302.	\$
СО	BOUT, A et al., "Lung gene therapy: <i>In vivo</i> adenovirus-mediated gene transfer to rhesus monkey air ay epithelium", Human Gene Therapy, 1994, Vol. 5, pp. 3-10.	
СР	BRENNER, S. et al., "Encoded combinatorial chemistry", Proc. Natl. Acad. Sci. USA, 1992, Vol. 89, pp. 538 5383.	
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cs	implantable infusion pump in ambulatory patients with recurrent venous thrombosis", Surgery,	
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CU	CAO, X., et al., "A transcriptively active complex of APP with Fe65 and histone acetyltransferase Tip60", Science, 2001, Vol. 293, pp. 115-120.	
CV	244, pp. 1288-1292.	
CW	CHEN, F., et al., "Nicastrin binds to membrane-tethered notch", Nature Cell Biology, 2001, Vol. 3, pp. 751-754.	
СХ	CHEN, C. S., et al., "Geometric control of cell life and death", Science, 1997, Vol. 276, pp. 1425-1428.	
CY	CHO, H. P., et al., "Cloning, expression, and fatty acid regulation of the human Δ-5 desaturase", The Journal of Biological Chemistry, 1999, Vol. 274, No. 52, pp. 37335-37339.	
CZ	CHOU, P. Y., et al., "Conformational parameters for amino acids in relical, β-sheet, and random coil regions calculated from proteins", Biochemistry, 1974, Vol. 3, No. 2, pp. 211-222.	
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CB1	CLINE, M.J., "Perspectives for gene therapy: Inserting new genetic information into mammalian cells by physical techniques and viral vectors", Pharmac. Ther., 1985, Vol. 29, pp. 69-92.	
CC1	CLOWES, M. M., et al., "Long-term biological response of injured rat carotid artery seeded with smooth muscle cells expressing retrovirally introduced human genes", J. Clin. Invest,	
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STATEMENT BY APPLICANT				First Named Inventor	Carsten Hopf	
				Art Unit	1633	
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Sheet	4	of	12	Attorney Docket Number	14129-00001-US	

	CD1	COTTEN, M., et al., "Receptor-mediated transport of DNA into eukaryotic cells", Methods in Enzymology, 1993, Vol. 217, pp. 618-644.
	CE1	COUTURE, L. A., et al., "Anti-gene therapy: the use of ribozymes to inhibit gene function", Trends in Genetics, 1996, Vol. 12, No. 12, pp. 510-515.
No.	CF1	DAVEY, H. M., et al., "Flow cytometry and cell sorting of heterogeneous microbial populations: the importance of single-cell analyses", Microbiological Reviews, 1996, Vol. 60, No. 4, pp. 641-696.
	ÖG1	DE STROOPER, B., et al., "Deficiency of presenilin-1 inhibits the normal cleavage of amyloid precursor protein", Nature, 1998, Vol. 391, pp. 387-390.
	CH1 *	DE STROOPER, B., et al., "A presenilin-1-dependent γ-secretase-like protease mediates resease of Notch intracellular domain", Nature, 1999, Vol. 398, pp. 518-522.
	CI1	DEXTER, T. M., et al., "Conditions controlling the proliferation of haemopoietic stem cells in vitro", Cell. Physiol., 1977, Vol. 91, pp. 335-344.
	CJ1	DIAMOND, B. A., et al., "Monoclonal antibodies – A new technology for producing serologic reagents", The New England Journal of Medicine, 1981, Vol. 304, No. 22, pp. 1344-1349.
	CK1	DURING, M. J., et al., "Controlled release of dopamine from a polymeric brain implant: in vivo characterization", annals of Neurology, 1989, Vol. 25, No. 4, pp. 351-356.
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	CM1	ELBASHIR, S. M., et al., "RNA interference is mediated by 21- and 22-nucleotide RNAs", Genes & Development, 2001, Vol. 15, pp. 188-200.
	CN1	ELBASHIR, S. M., et al., "Duple es of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells", Nature, 2001, Vol. 411, pp. 494-498.
	CO1	ELLINGTON, A. D., et al., "Selection in vitro of single-stranded DNA molecules that fold into specific ligand-binding structures", Nature, 1992, Vol. 355, pp. 850-852.
	CP1	EMSLEY, R., et al., "Clinical potential of on ega-3 fatty acids in the treatment of schizophrenia", CNS Drugs, 2003, Vol. 17, No. 15, pp. 1081-1091.
	CQ1	ENGSTRÖM, A., "The arrangement of the protein molecules in nuclear-polyhedrosis inclusions", Biochem. Exp. Biol., 1974, Vol. 11, pp. 7-13.
	CR1	ERB, E., et al., "Recursive deconvolution of combinatorial chemical libraries", Proc. Natl. Acad. Sci. USA, 1994, Vol. 91, pp. 11422-11426.
	CS1	FIGEYS, D., et al., "Proteomics on a chip: Promising developments", Electrophoresis, 2001, Vol. 22, Vol. 208-216.
	CT1	FOWLKES, D. M., et al., "Multipurpose vectors for peptide expression on the M13 viral surface", BioTechniques, 1992, Vol. 13, No. 3, pp. 422-427.
	CU1	FRANCIS, R., et al., "aph-1 and pen-2 are required for notch pathway signaling, γ-secretase cleavage of βAPP, and presentiin protein accumulation", Developmental Sell, 2002, Vol. 3, pp. 85-97.
	CV1	FREEMAN, G. J., et al. "Sequential expression of new gene programs in inducer T-cell clones", Proc. Natl. Acad. Sci. USA, 1983, Vol. 80, pp. 4094-4098.
	CW1	FUCHS, P., et al., "Targeting recombinant antibodies to the surface of <i>Escherichia cali</i> : Fusion to a peptidoglycan associated lipoprotein", Bio/Technology, 1991, Vol. 9, 1369-1372.
	CX1	GALLOP, M. A., et al., "Applications of combinatorial technologies to drug discovery. 1. Background and peptide combinatorial Libraries", Journal of Medicinal Chemistry, 1994, Vol. 37, No. 9, 1233-1251.
	CY1	GAUTIER, C., et al., "α-DNA IV: α-anomeric and β-anomeric tetrathymidylates covalently linked to intercalating oxazolopyridocarbazole. Synthesis, physicochemical properties and poly (rA) binding", Nucleic Acids Research, 1987, Vol. 15, No. 16, 6625-6641.
	CZ1	GEORGAKOPOULOS, A., et al., "Presenilin-1 forms complexes with the cadherin/catenin cell-

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B. B	CA2	GIBSON, I., "Antisense approaches to the gene therapy of cancer - 'Recnac'", Cancer and Metastasis Reviews, 1996, Vol. 15, pp. 287-299.	
	CB2	GOLDSPIEL, B. R., et al., "Human gene therapy", Clinical Pharmacy, 1993, Vol. 12, pp. 488-505.	
	CC	GOOD, P. D., et al., "Expression of small, therapeutic RNAs in human cell nuclei", Gene Therapy, 1997, Vol. 4, pp. 45-54.	
	CD2	CRASSI, G., et al., "Ribozymes: Structure, function and potential therapy for dominant genetic disorders", Trends in Molecular Medicine, 1996, Vol. 28, pp. 499-510.	
	CE2	GRIFTHS, A. D., et al., "Human anti-self antibodies with high specificity from phage display libraries. The EMBO Journal, 1993, Vol. 12, No. 2, pp. 725-734.	
	CF2	GROSSMAN, M., et al., "Retroviruses: delivery vehicle to the liver", Current Opinion in Genetics and Development, 1993, Vol. 3, pp. 110-114.	
	CG2	GYLLENSTEN, J. B., et al., "Generation of single-stranded DNA by the polymerase chain reaction and its application to direct sequencing of the <i>HLA-DQA</i> locus", Proc. Natl. Acad. Sci. USA, 1988, Vol. 85, pp. 7652-7656.	
	CH2	HAY, B. N., et al., "Backgriophage cloning and <i>Escherichia coli</i> expression of a human IgM Fab", Hum. Antibod. Hybridomas, 1992, Vol. 3, pp. 81-85.	
	CI2	HONORÉ, B., "Genome- and Proteome-based technologies: status and applications in the postgenmic era", Expert Rev. Mol. Diagn., 2001, Vol. 1, No. 3, pp. 265-274.	
	CJ2	HOPP, T. P., et al., "Prediction of protein antigenic determinants from amino acid sequences" Proc. Natl. Acad. Sci. USA, 1981, vol. 78, No. 6, pp. 3824-3828.	
	CK2	HOUGHTEN, R. A., et al., "Generation and use of synthetic peptide combinatorial libraries for basic research and drug discovery", Nature, 1991, Vol. 354, pp. 84-86.	
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	CM2	HOWARD, M. A., et al., "Acute subdural hematomas: an age-dependent clinical entity", J. Neurosurg., 1989, Vol. 71, pp. 858-863.	
	CN2	HU, Y., et al., "Nicastrin is required for γ-secretase chavage of the <i>Drosophila</i> Notch receptor", Developmental Cell, 2002, Vol. 2, pp. 69-78.	
	CO2	HUNKAPILLER, M., et al., "A microchemical facility for the analysis and synthesis of genes and proteins", Nature, 1984, Vol. 310. pp. 105-111.	
	CP2	HUSE, W. D., et al., "Generation of a large combinatorial library of the immunoglobulin repertoire in phage lambda", Science, 1989, Vol. 24, pp. 1275-1281.	
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	CU2	JAYASENA, S. D., "Aptamers: An emerging class of molecules that rival antibodies in diagnostics", Clinical Chemistry, 1999, Vol. 45, No. 9, pp. 1628-1650.	
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	CW2	JOLIOT A., et al., "Antennapedia homeobox peptide regulates neural morphogenesis", Proc. Natl. Acad. Sci. USA, 1991, Vol. 88, pp. 1864-1868.	N. C.

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_	CN3	KARLSTRÖM, A., et al., "Dual labeling of a binding protein allows for specific fluorescence detection of native protein", Analytical Biochemistry, 2001, Vol. 295, pp. 22-30.	
	СВЗ 🥈	KAUVAR, L. M., et al., "Predicting ligand binding to proteins by affinity fingerprinting", Caemistry & Biology, 1995, Vol. 2, No. 2, pp. 107-118.	
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CP5	PEARSON J. E., et al., "Analytical aspects of biosensors", Ann. Clin. Biochem., 2000, Vol. 37, 119-145.
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CS5	PETRICOIN, E. F., et al., "Ise of proteomic patterns in serum to identify ovarian cancer", The Lancet, 2002, Vol. 359, 572-377.
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CV5	REBAR, E. J., et al., "Zinc finger phage: Affinity selection of fingers with new DNA-binding specificities", Science, 1994, Vol. 263, pp. 67 1673.
CW5	RENNEISEN K., et al., "Inhibition of expression of human immunodeficiency virus-1 in vitro by antibody-targeted liposomes containing antisense NA to the env region", The Journal of Biological Chemistry, 1990, Vol. 265, No. 27, pp. 16387-16342.
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CY5	RIGAUT, G., et al., "A generic protein purification method for protein complex characterization and proteome exploration", Nature Biotechnology, 1999, Vol. 7, pp. 1030-1032.
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CI6 3	WASSAR, R., et al., "β-secretase cleavage of Alzheimer's amyloid precursor protein by the the same than the same transfer of the same	
CJ6	SCOTT, J. K., et al., "Searching for peptide ligands with an epitope library", Science, 1990, Vol. 249, pp. 386-390.	
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CP6	SKERRA, A., "Lipocalins as a caffold", Biochimica et Biophysica Acta, 2000, Vol. 1482, pp. 337-350.	
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CS6	SOMIA, N. V., et al., "Retroviral vector targeting to human immunodeficiency virus type 1-infected cells by receptor pseudotyping", Journal of Virology, 2000, Vol. 74, No. 9, pp. 4420-4424.	
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CV6	STAUDT, L. M., et al., "Cloning of a lymphoid-specific cDNA encoding a protein binding the regulatory octamer DNA motif", Science, 1988, Vol. 241, pp. 577-580.	
CW6	STEELE, C. D., et al., "Prenatal Diagnosis using fetal cells isolated from maternal peripheral blood: A review", Clinical Obstertics and Gynecology, 1996, Vol. 39, No. 4, pp. 801-813.	
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CY6	STEIN, C. A., et al., "Physicochemical properties of phosphorothioate digodeoxynucleotides", Nucleic Acids Research, 1988, Vol. 16, No. 8, pp. 3209-3221.	
CZ6	STEMPLE, D. L., et al., "Isolation of a stem cell for neurons and glia from the mammalian neural crest", Cell, 1992, Vol. 71, pp. 973-985.	
CA7	SUN, L. K., et al., "Chimeric antibody with human constant regions and mouse ariable regions directed against carcinoma-associated antigen 17-1A", Proc. Natl. Acad. Sci. USA, 1987, Vo. 84, pp. 214-218.	
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